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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,112	09/17/2003	Jonathan Lynch	PD-02W215	4757
7590 02/03/2005		EXAMINER		
Patent Docket Administration			CHOE, HENRY	
RAYTHEON C	COMPANY			
Bldg. EO/E4/N	119		ART UNIT	PAPER NUMBER
P.O. Box 902			2817	
El Segundo, CA 90245			DATE MAILED: 02/03/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	_		
Office Action Summary		10/664,112	LYNCH, JONATHAN			
		Examiner	Art Unit			
		Henry K. Choe	2817			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet	vith the correspondence address			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication experiod for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of the riod will apply and will expire SIX (6) Me atute, cause the application to become a	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status	•					
1)[\]	Responsive to communication(s) filed on 1	7 September 2003				
•	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allo		tters, prosecution as to the merits is			
,	closed in accordance with the practice under					
Disposit	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) 1-30 is/are pending in the applicate 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1,2,8,10,13 and 18-20 is/are reject Claim(s) 3-7,9,11,12,14-17 and 21-30 is/are Claim(s) are subject to restriction and	drawn from consideration. ted. e objected to.				
Applicat	ion Papers					
10)⊠	The specification is objected to by the Example The drawing(s) filed on <u>17 September 2003</u> Applicant may not request that any objection to Replacement drawing sheet(s) including the contraction of the oath or declaration is objected to by the	is/are: a)⊠ accepted or by the drawing(s) be held in abey rrection is required if the drawir	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).			
Priority	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bu See the attached detailed Office action for a	nents have been received. nents have been received in priority documents have bee reau (PCT Rule 17.2(a)).	Application No In received in this National Stage			
2) Notice 3) Information	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB er No(s)/Mail Date	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152) 			

Application/Control Number: 10/664,112

Art Unit: 2817

DETAILED ACTION

Claim Objections

Claims 27-29 are objected to because of the following informalities: in line 1 of claim 27, should "27" be –28--. In line 1 of claim 28, should "28" be –29--. In line 1 of claim 29, should "29" be –30--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 8, 10, 13 and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Wallace et al [(2A, 3) It should be noted that the element 408 in Fig. 3 is same as the element 408 in Fig. 2A].

Regarding claims 1, 2, 13 and 20, Wallace et al (2A, 3) discloses an amplifier circuit comprising a plurality of amplification units (408s in Fig. 2A) arranged in a grid like structure on a monolithic substrate (410), and a grid-bias network (-5V, +5V in Fig. 3) which separates the amplification units (408s) to provide a DC power (+5V, -5V) to the amplification units (408s) and wherein each amplification unit (408) includes biasline bypass circuits (a connection between +5V and amplification unit and a connection between –5V and amplification unit) in a periodic structure.

Art Unit: 2817

Regarding claim 8, wherein each amplification unit (408) includes a power

amplifier (508 in Fig. 3).

Regarding claims 10, 18 and 19, the amplification unit (408) further includes a

receive antenna (502), a power amplifier (520) which receives a bias voltage (+5V), and

the amplification unit (408) inherently includes a transmit antenna since the amplification

unit (408) cannot transmit a signal without the transmit antenna.

Allowable Subject Matter

Claims 3-7, 9, 11, 12, 14-17 and 21-30 are objected to as being dependent upon

a rejected base claim, but would be allowable if rewritten in independent form including

all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Patent numbers (4,553,053; 4,074,151) are the plurality of amplifiers.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Henry Choe whose telephone number is (571) 272-

1760.

HENRY CHOE

PRIMARY EXAMINER

#976